SECURITY INTEGRATION SOFTWARE

INTUITIVE COMMAND & CONTROL

CxEye™ – the Kelvin Hughes control and display software, integrates multiple sensors, such as radars and cameras, into a single, easy to use display package.

SENSOR INTEGRATION

Building on the excellent detection capability of the SharpEye™ radar sensors, CxEye™ is designed to meet the operational requirements of a variety of users. Providing radar tracks, geo-referenced on a selection of mapping tools, the system can also fuse tracks from multiple radar heads into one user-friendly display. Perimeter surveillance can be achieved instantaneously, with reporting of threats achieved automatically or through user-determined parameters.

Radar tracks in different domains, displayed in an easy to understand format, will assist the user to evaluate and coordinate a response through a ‘detect, recognise, identify and then classify’ methodology. CxEye™ is capable of the seamless and automatic integration of a range of complementary sensors. Most commonly, electro-optical sensors can be paired with the radar using a slew to cue functionality. Information from any additional fitted sensors can be processed to give the operator real-time imagery and data to assist in picture compilation and threat assessment.

COMMUNICATIONS

Passing of radar tracks and additional data is achieved through a range of communications options determined by the operational requirement. Multiple iterations of the software can be integrated to build up a wider surveillance network, with data and communications passed automatically to ensure a real-time response capability.

USER-FRIENDLY DISPLAY

CxEye™ simplifies the task of the surveillance operator. Using our unparalleled knowledge of display and information systems based on over 60 years of delivering high-capability displays, Kelvin Hughes has developed a system perfectly suited to the operational task in hand. Operators will be able to perform complex tasks with minimal interaction with the display, making the systems suitable for use in even the most challenging environments.

Whether in the field, a vehicle or a deployable platform, the user will have a display which will perform the task of picture compilation and threat assessment without the need for extensive training. Detection, tracking, track fusion, identification and threat assessment is seamlessly performed and presented in a user-friendly manner on hardware appropriate to the user’s needs.
# Intuitive Command & Control

## Radar
- Large Radar Display Area, overlaid on map or aerial imagery up to four radar inputs
- Thresholding
- Selectable Radar Video Visibility
- Pan and Zoom enabled Radar Display
- Programmable Colour for all channels
- Programmable Persistence

## Camera Control
- Slew to cue to selectable targets
- Joystick and on-screen control of camera
- Customisable Acquisition zoom levels based on distance and speed of target
- Tilt and roll compensation

## Video
- Integration of multiple video cameras
- Picture in Picture display from dual Head cameras
- Cameras displayed and selectable on map display
- Acquisition and display of target snapshots
- Network distribution of target snapshots

## Threat Evaluation
- Target to top ten threats
- Customisable threat evaluation parameters including:
  - Target Speed
  - Target Distance
  - Target Classification
  - Target Type
  - Target Position e.g. in alarm areas
- Target parameter weighting user interface

## Tracking
- Multi hypothesis track extraction from Radar video
- Track fusion from multiple local and remote track sources
- User definable trail lengths

## Map Display
- Zoomable map displays
- Multiple high quality street maps and aerial imagery
- Integrated Bing maps
- Supports raster maps
- Targets overlaid on referenced map
- Map range scale graticule
- Graphical alarm / blanking area selection tool
- Distance measuring between targets and areas of interest

## Target Information
- Editable target data, including: name, type, classification
- Latest target snapshot attached to target data
- Intuitive target type icons
- Target classification colour code

## Interfaces
- Radar input via LAN
- Radar control via LAN
- Track distribution over LAN
- Accepts input from multiple track extractors
- Easy integration of other sensors via TTM messages
- Outputs to video tracker via TTM messages
- Supports Pelco-D extended camera interface
- Supports proprietary camera interfaces
- Camera control over LAN or RS232/422/485
- Compatible with all direct-view enabled camera interfaces

## Hardware Compatibility
- Compatible with standard PC hardware
- Touch-screen enabled
- Designed for high definition displays
- Compatible with low definition displays from 800x600 pixels (auto scaling)
- Min recommended Hardware requirements:
  - Intel i5 processor
  - 2GB RAM
  - NVIDIA GeForce GT240 Graphics
  - Windows 7 or Windows 8, 32 or 64 bit

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1. Two radar licences included with each copy of CxEye™, Additional licences available.
2. When integrated with Sharpye™ BVX.
3. Requires internet connection.
4. Other input types can be accepted subject to interface development.